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Docket No. GJE-87
Serial No. 10/081,599In the Claims

This listing of claims will replace all prior versions and listings of claims in this application.

1 (Currently amended). An artificial chromosome comprising a first polynucleotide sequence that regulates gene expression wherein said first polynucleotide sequence consists of [[a]] the 1.3 kb polynucleotide sequence from position 5885 to 7185 between Cδ and Cy3 of the human IgH locus, wherein said polynucleotide sequence exerts regulatory control on immunoglobulin gene activation during lymphoid development; and wherein said artificial chromosome further comprises a heterologous gene under the control of said first polynucleotide sequence.

2 (Original). The chromosome according to claim 1, selected from the group consisting of bacterial, yeast, eukaryotic and mammalian chromosomes.

3 (Previously presented). The chromosome according to claim 1, which includes a polynucleotide sequence encoding a transcription-binding factor.

4 – 15 (Cancelled).